

**ELECTROCONDUCTIVE FIBER**

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**Abstract of JP9228148**

**PROBLEM TO BE SOLVED:** To obtain an electroconductive fiber having such characteristics as to exhibit high electroconductivity necessary for removal of electricity under high electrostatically charged voltage due to friction when blended with raw cotton into spun yarn, but exhibit low electroconductivity close to that of insulator under conditions of voltage enough to actuate electronic equipment (normally, several tens volts or lower) and therefore cause no short-circuiting even if incorporated into such equipment.

**SOLUTION:** This electroconductive fiber has the following characteristics: containing 15-70vol.% of electroconductive fine particles 0.01-5 $\mu$ m in average size in the electroconductive layer; and electroconductivity under an applied voltage of 1,000V is  $\geq 10^{-4}$  S/cm, while that under an applied voltage of 50V is  $10^{-3}$  to  $10^{-9}$  S/cm, and the former electroconductivity is higher than the latter by 1 to 5 in terms of logarithmic value difference.

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